

**MBNMS Research Activity Panel
Meeting Summary
November 2007**

Host: Chris Harrold – Marine Conservation Biology (Monterey Bay Aquarium)

Location: Ocean View Conference Room
Monterey Bay Aquarium

Date: Friday, November 16th, 2007; 8:45 am to 12 pm

Members:

	Discipline	Primary/ Alternate	Name	Institution
X	Research Coordinator		DeVogelaere, Andrew	Monterey Bay National Marine Sanctuary
	Biological Oceanography	primary	Chavez, Francisco	Monterey Bay Aquarium Research Institute
	Biological Oceanography	alternate	Kudela, Raphael	University of California, Santa Cruz
X	Deep Sea Ecology	primary	Cailliet, Greg	Moss Landing Marine Laboratories
	Deep-sea Ecology	alternate		
	Estuarine Ecology	primary	Wasson, Kerstin	Elkhorn Slough NERR and Foundation
	Estuarine Ecology	alternate	Van Dyke, Eric	Elkhorn Slough NERR and Foundation
	Fisheries	primary	Grimes, Churchill	NOAA Fisheries Service
X	Fisheries	alternate	Coulston, Pat	California Department of Fish & Game
X	Marine & Coastal Geology	primary	Storlazzi, Curt	United States Geological Survey
	Marine & Coastal Geology	alternate	Paull, Charles	Monterey Bay Aquarium Research Institute
X	Marine Conservation Biology	primary	Harrold, Chris*	Monterey Bay Aquarium
	Marine Conservation Biology	alternate	Micheli, Fiorenza	Hopkins Marine Station
	Marine Policy	primary	Faurot-Daniels, Ellen	California Coastal Commission
X	Marine Policy	alternate	Sharp, Gary	Center for Climate/Ocean Resources Study
	Nearshore Ecology	primary		
	Nearshore Ecology	alternate	Carr, Mark	University of California, Santa Cruz
	Physical Oceanography	primary	McPhee-Shaw, Erika	Moss Landing Marine Laboratories
X	Physical Oceanography	alternate	Breaker, Laurence†	Moss Landing Marine Laboratories
X	Shelf & Slope Ecology	primary	Yoklavich, Mary	NOAA Fisheries Service
	Shelf & Slope Ecology	alternate	Starr, Rick	California Sea Grant Extension Program
X	Social Sciences	primary	Pomeroy, Caroline	California Sea Grant Extension Program
X	Social Sciences	alternate	Kildow, Judith	Monterey Bay Aquarium Research Institute
	Water Quality	primary	Epel, David	Hopkins Marine Station
X	Water Quality	alternate	Hunt, John	University of California, Davis

*Sanctuary Advisory Council Member: Research (Primary)

†Sanctuary Advisory Council Member: Research (Alternate)

GUESTS:

	Name	Institution
X	Anglin, Lorraine	Monterey Bay National Marine Sanctuary
X	Burton, Erica	Monterey Bay National Marine Sanctuary
X	Conley, Gary	Monterey Bay National Marine Sanctuary
X	David, Aimee	Center for the Future of the Oceans - MBA
X	deMarignac, Jean	Monterey Bay National Marine Sanctuary
X	Etherington, Lisa	Cordell Bank National Marine Sanctuary
X	Hall, Deirdre	Monterey Bay National Marine Sanctuary
X	Hardin, Dane	CCLEAN/Applied Marine Sciences
X	Katz, Steve	Channel Island National Marine Sanctuary
X	King, Chad	Monterey Bay National Marine Sanctuary
X	Lozano, Sasha	Monterey Bay National Marine Sanctuary (MERITO)
X	Parrish, Richard	Retired (NOAA Fisheries - Pacific Fisheries Environmental Lab)
X	Pederson, Josh	Monterey Bay National Marine Sanctuary
X	Ramp, Steve	CeNCOOS
X	Robinson, Dave	SeaLife Conservation – R/V <i>Derek M Baylis</i>
X	Selbie, Hugo	Monterey Bay National Marine Sanctuary
X	Wasser, Jamie	Monterey Bay National Marine Sanctuary (NOAA Corps)

CONSENT ITEMS**Introductions/modifications to the agenda (Chris Harrold)**

- Dave Robinson (guest) from SeaLife Conservation (mission: to inspire conservation of the oceans and marine life by fostering awareness of the marine environment through hands on experience, involvement, education, and research) is working on fisheries and marine debris issues, aboard R/V *Derek M Baylis*. He is looking for a place to house data (GIS, etc.)
 - Steve Ramp offered CeNCOOS as a potential database host
 - Gary Sharp suggested the Central Coast Joint Data Committee
 - <http://www.sealifeconservation.org>
- Curt Storlazzi (USGS) brought draft map products (Half Moon Bay area) from California Coast State Waters Mapping Project (funded by CA State Bond money); Partners include: USGS, CSUMB (Rikk Kvitek), Center for Habitat Studies (Gary Greene), FUGRO, MBNMS (R/V *Fulmar*); when products are complete announcement will be posted on SIMoN website. In the meantime, a SIMoN project web page is available at http://sanctuarysimon.org/monterey/sections/geology/project_info.php?projectID=100316&sec=g

PRESENTATIONS**Communicating Science-Based Solutions to Ocean Challenges (Aimee David/Center for the Future of the Oceans-MBA)**

- MBA Mission: Inspire conservation of the oceans
- CFFO Mission: Inspire action for the conservation of the oceans
- CFFO goals:

- Support creation of statewide network of MPAs
- Promote national ocean policy reform
- Raise awareness about sustainable seafood
- Advocate for policies to conserve and restore key marine wildlife and ecosystems
- CFFO involved in following issues: MLPA; Aquaculture; Climate Change
- CFFO Long-term Vision: Healthy oceans and robust marine life

Central Coast Long-term Environmental Assessment Network (CCLEAN) (Dane Hardin/Applied Marine Sciences)

- CCLEAN objectives include:
 - Determine sources, amounts, effects of contaminants discharged to nearshore waters
 - Determine status and trends of nearshore waters, sediments, and associated beneficial uses
 - Determine whether nearshore waters and sediments within state and federal clean water standards
- Since the monitoring program began (~8 yr ago), major findings include:
 - Rivers are largest measured source of POPs and most nutrients
 - Fresh legacy pesticides still entering Monterey Bay and impairing beneficial uses
 - Some emergent contaminants of concern and endocrine disrupters may come mostly from wastewater

STAFF/SAC REQUESTS TO RAP

December SAC meeting: MPA science and process in federal waters (Chris Harrold)

- Chris presented the chronology of process
- The MBNMS MPA working group has not reached consensus on the need for MPAs
- At the September RAP meeting, the RAP requested an executive summary of the 5-year process and products of the MPA working group; “MBNMS MPA Initiative Timeline” from 2001-2007 was provided as hand-out (from Huff McGonigal)
- Chris briefly reviewed the next steps (as presented at the September RAP meeting)
- The MBNMS will seek advice from the SAC at the December meeting: Should MPAs (including Marine Reserves) be established in federal waters of the MBNMS?
- The three primary constituent groups of the Working Group (fishing, conservation, and research) will present their view on the need for MPAs in federal waters
- Chris will represent research, by answering the question, “How can science inform the decision?”
 - Frame the question as a testable hypothesis
 - Seek theoretical or empirical evidence that supports or refutes the hypothesis
 - Drawn conclusion based on the evidence
- Chris will focus his discussion on Marine Reserves (no-take areas)
- He will try to answer two questions from a scientific perspective:
 - Can marine reserves contribute to ecosystem protection goals of the National Marine Sanctuaries Act within the MBNMS?
 - What is the need?
- Approach:

- What theoretical evidence is there to support or refute the hypothesis?
- What empirical evidence is there to support or refute the hypothesis?
- Will sharpen the focus to temperate, deep/offshore waters
- The question of need will focus on threats to Sanctuary resources, and whether MPAs can address the threats
- If RAP members have additional input, send to email to Chris

DISCUSSION ITEMS

Sanctuary Currents Symposium planning update (Chris Harrold)

- Symposium will be held at CSUMB on April 5, 2008
- Symposium Theme: Impacts of Climate Change on our Oceans
- Topics include:
 - Current understanding of climate change (Global)
 - Impacts of climate change on oceans (Global to MBNMS)
 - Human response, mitigation, adaptation (MBNMS focus)
- Speakers are being lined up; need to be local (no travel money)
- RAP can send speaker suggestions to Chris

Ed Ricketts Memorial Award/Lecture & Sanctuary Currents Reflection Science Award nominations (Erica Burton/MBNMS)

- Nominations are being sought for the two science awards
- Send nominations (including paragraph of support) to Erica by Dec 7th
- RAP Voting will be held via email (~Dec 21st - Jan 10th)

Science acronyms in the MBNMS (Erica Burton/MBNMS)

- A list of acronyms, commonly used when addressing research issues on the MBNMS, was created for the new Superintendent (Paul Michel)
- The list could be useful to the RAP; list will be included in the RAP binder and on the RAP web site (<http://montereybay.noaa.gov/research/RAPhistory/acronyms112007.pdf>)
- Send updates or suggestions to Erica

SUGGESTED FUTURE AGENDA ITEMS

Future Agenda Items:

- Water Quality
 - Findings on tracking pathogens in sea otters and connection to FW flows (CDFG, UC Davis?)
 - Critical coastal areas presentation (ASBS, areas water quality impaired, areas in good state; Ross Clark)
- Food Safety Measures and Affected Wildlife (requested by Mary Yoklavich)
- SIMoN: future monitoring (JMPR or beyond)
- SIMoN Special Status Species Project (Jennifer Brown)
- Coastal armoring and coastal erosion (Ed Thornton)
- Linking SIMoN to management (Amber Szoboszlai; January 2008)
- CeNCOOS – Steve Ramp (January 2008)

- Communication Partnership for Science and the Sea (COMPASS)
- Wave Model Development and Implementation (Paul Wittmann/Fleet Numerical)
- CINMS MPA evaluation (Mark Carr/NCEAS)

2008 RAP Meeting Schedule and Locations

Date	Host	Location
January 11	Harrold	Monterey Bay Aquarium
March 14	Carr	Long Marine Lab, UCSC, Santa Cruz
May 9	Wasson	Elkhorn Slough NERR
July 11	Cailliet	Moss Landing Marine Labs
September 12	Coulston	CDFG, Monterey
November 14	Storlazzi	USGS, Santa Cruz
